

## 5. 510(k) Summary or 510(k) Statement

FEB - 6 2012

Summary of 510 (k) safety and effectiveness information upon which the substantial equivalence determination is based:

Prepared: December 16, 2011  
Applicant: Solana Surgical, LLC  
6363 Poplar Ave, Suite 434  
Memphis, TN 38119

<b>Common Name:</b>	Toe joint, phalangeal (hemi-toe) prosthesis
<b>Device Trade Name:</b>	Metatarsal Decompression Implant
<b>Device Classification Name:</b>	Toe joint phalangeal (hemi-toe) polymer prosthesis
<b>Device Classification:</b>	Class II
<b>Reviewing Panel:</b>	Orthopedic
<b>Regulation Number:</b>	21 CFR 888.3730
<b>Product Code:</b>	KWD
<b>Predicate Device:</b>	K09127 Solana Surgical, K070052 Vilex K023770 Kinetikos Medical, and K073065 Osteomed

### Device Description:

The Solana Surgical Implant is a one-piece device made of Cobalt Chromium (with titanium plasma spray coated stem) or Titanium, intended to replace the articulating surface of the metatarsal bone at the metatarsalphalangeal (MTP) joint. The implant is available in a range of sizes to match the geometry of the metatarsal phalangeal joint. Design features include an articulating surface and a stem which extends proximally in the intramedullary canal of the distal metatarsal. The design of the Solana Surgical implant is similar to the predicate devices. No new materials or processes are used in the development of this implant.

### Indications for Use:

The Solana Surgical LLC, Metatarsal Decompression Implant is intended for use as a hemi-arthroplasty implant for the first metatarsophalangeal joint, for the treatment of degenerative and post-traumatic arthritis, hallux valgus, hallux rigidus, and an unstable or painful metatarsophalangeal (MTP) joint.

The device is intended for single use to be used with bone cement or press fit without bone cement.

**Comparison to Predicate Device:****Summary:**

Similarities of the Solana Surgical device to its predicates include these devices being: intended for single use only, intended for surgical implantation longer than 30 days, system consisting of a series of implants, made of industry standard materials, with no new materials being introduced in the product, comparably sized, and indicated for the same uses.



## DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration  
10903 New Hampshire Avenue  
Document Mail Center - WO66-G609  
Silver Spring, MD 20993-0002

Solana Surgical, LLC.  
% Ms. Louise Focht  
6363 Poplar Avenue  
Suite 434  
Memphis, Tennessee 38119

FEB - 6 2012

Re: K113752

Trade/Device Name: Solana Surgical Metatarsal Decompression Implant  
Regulation Number: 21 CFR 888.3730  
Regulation Name: Toe joint phalangeal (hemi-toe) polymer prosthesis  
Regulatory Class: II  
Product Code: KWD  
Dated: December 16, 2011  
Received: December 21, 2011

Dear Ms. Focht:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21

CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

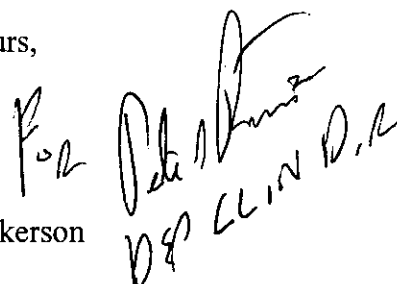
If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOices/ucm115809.htm> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

<http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Mark N. Melkerson", is written over the typed name and title. To the right of the signature, there is a handwritten note that reads "DGP CLIN D.R.".

Mark N. Melkerson  
Director  
Division of Surgical, Orthopedic  
and Restorative Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Indications for Use


510(k) Number (if known): K113752  
Device Name: Metatarsal Decompression Implant  
Indications for Use:

The Solana Surgical LLC, Metatarsal Decompression Implant is intended for use as a hemi-arthroplasty implant for the first metatarsophalangeal joint, for the treatment of degenerative and post-traumatic arthritis, hallux valgus, hallux rigidus, and an unstable or painful metatarsophalangeal (MTP) joint.

The device is intended for single use to be used with bone cement or press fit without bone cement.

Prescription Use   x   AND/OR Over-The-Counter Use             
(Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C)  
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

  
\_\_\_\_\_  
(Division Sign-Off)  
Division of Surgical, Orthopedic,  
and Restorative Devices

510(k) Number K113752